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International patent application PCT/NL2004/00186AMENDED MAIN CLAIM

1. A method of separating a particle fraction from
- 5 a particle stream, wherein the particles of the particle stream are separated in a fluid in a container under the influence of gravitational force based on difference in vertical velocity, wherein the fluid and the particles are moved in a substantially horizontal direction defining a
- 10 relative direction of movement, and wherein at a first location a first particle fraction is collected, and at a second location somewhat removed from the first location, a second particle fraction is collected in respective collecting means, wherein baffles are provided for causing
- 15 the fluid to move in the relative direction of movement, **characterised** in that the baffles are placed maximally 3, preferably maximally 2 and most preferably less than 1 x the diameter of spread of the particles that spread out the most of the particle fraction spreading out the most.